

# Math 211 Class notes

## Fall 2024

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## Section 1.1: What Are Data?

Statistics rests on two major concepts:

a) Data

b) Variation

**Statistics is the science of:**

- Collecting
- Organizing
- Summarizing
- Analyzing Data

**For the purpose of:**

- Answering questions and/or
- Drawing conclusions

**Context is important!** Some questions you can ask:

- Who, or what, was observed?
- How were they measured?
- Who collected the data?
- Where/when/why were the data collected?
- What variables were measured?
- What are the units of measurement?
- How did they collect the data?